1. Bob has to cut a log in the woods into 9 pieces. If that’s him 4 mins to make one cut, how long will it take him to cut the 9 pieces?

Working	Solution

2. A spider climbs up a 40m building and each one hour for every 3 metres he climbs up he slides back down 1m. How many hours will it take it to climb to the top?

Working	Solution

3. John is building a tower with lego and it takes him 30 seconds to put two pieces together. How long will it take him to join 15 pieces?

Working	Solution

4. A large cube is covered in paint on all sides. The cube is then sliced into 64 pieces. How many mini cubes have zero, one, two or three sides painted?

Working	Solution

5. Angela has to hammer 7 nails into a piece of wood in a straight line starting at A (first nail) and ending at B (last nail) with a distance of 27cm apart. What is the length of A to B.

Working	Solution

6. A, B and C all join the gym together on Monday. A attends every 3 days, B attends every 4 days and C attends every 5 days. Which day will they be in class together again?

Working	Solution

7. Jack gets paid 1c for the burger he makes, 3c for the next, 7c for the next and so forth. How much does he get paid altogether if he makes 6 burgers?

Working	Solution

8. There are total 12 chickens and sheep on a farm. Bob counts 60 legs. How many of each animal are there?

Working	Solution

9. Jen has four apple and four orange trees. For every 4 apples she picks she picks 5 oranges. She ends up with 48 apples. How many oranges did she collect and what is the total number of fruit she collected?

Working	Solution

10. 5 blocks A,B,C,D and E are lined next to each other. A is immediately to the right of B. C is to the right of D. B is between E and D. E is immediately to the left of B. Where is D?

Working	Solution

11. Place 14 blocks in three rows. The first row should have one less than the third row. The third row should have twice as many as the second row. How many blocks in each row?

Working	Solution

12. George has a one litre bottle of lemonade. He pours half of the lemonade out into a jug then gives the bottle to Jenny. Jenny is pours half of what's left in the bottle into the two large tumblers. The she hands the lemonade bottle to James. James pours half of whats left in the bottle into a plastic cup. How much lemonade is left in the bottle? What fraction of a litre is this?

Working	Solution

13. At a party of 14 people they all shake hands with each other once. How many handshakes were there?

Working	Solution

14. There are 40 students and there are 14 more boys than girls. How many boys and girls are there?

Working	Solution

15. On a visit to the zoo, a group of children decided to count. The heads and legs of the spider and lizards in one of the enclosures. They found that there were 10 heads and 60 legs altogether. How many spiders and lizards were there?

Working	Solution

16. Yasmine bought a hot dog and an orange juice for $2.85. The hot dog cost twice as much as the orange drink. What was the cost of each one?

Working	Solution

17. Jordon is buying tickets for his 8 friends. He has $50. Red tickets cost $5 and yellow cost $7. He spends a total of $50 in total. How many of each did he get?

Working	Solution

18. A B C D are all lined. Hoe many different orders can they be lined up in?

Working	Solution

19. Mrs Henderson just gave birth to a baby girl and wants to name her any of the following names Annie, Bella, Connie and Diana, and the middle name can be Elery, Fidora or Gladys. Hoy many possibilities are there?

Working	Solution

20. Peter made some jam sandwiches and some peanut butter sandwiches. He made 8 less peanut butter sandwiches than jam sandwiches. He made a total of 30 sandwiches. How many of each did he make?

Working	Solution

21. Jeff, Kate and Lucy are pizza delivery drivers. Jeff and Kate deliver 18 pizzas, Kate and Lucy deliver 19 pizzas, Jeff and Lucy deliver 13 pizzas. How many did each deliver on their own?

Working	Solution

22. Ice is sold in 5kg and 2kg bags. During a power outage dan bought all the ice and ended up with 32kgs of ice in 10bags. How many of 5kg and 2kg bags did he have?

Working	Solution

23. Here is a shape and its made of 4 identical squares. The perimeter is 50. So what's the area of the shape?

Working	Solution

24. You are counting aloud by 4s, starting at number 4.

The sequence is 4, 8, 12, ….. what is the 20^{th} number?

Working	Solution

25. Zoe has 40 cards in a box. 10 red, 10 blue, 10 green and 10 orange. She picks some cards. What's the smallest number of cards she needs to pick to be certain that atleast
    a. 2 cards are the same colour?
    b. 3 cards are the same colour?

Working	Solution

26. How many cubes in each shape

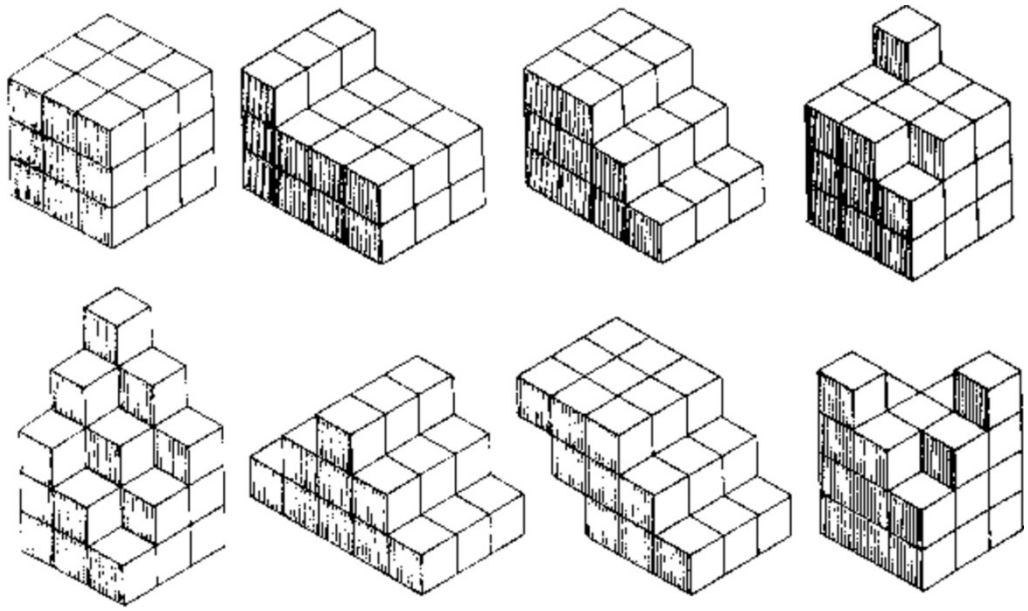

Fig. 54

27. Billy is writing a sequence of numbers. He starts with 1, then adds 2,3,4,1,2,3,4,1,..... repeatedly adding 2, then 3, then 4, then 1 like this:

    1 3 6 10 11, ... what are the 20^{th} and 21^{st} numbers?

28. Olivia feeds her fish every 2nd day and her turtle evert 7th day. On the 24th of July she fed both her fish and turtle. What will be the next day she feeds both again?

Working	Solution

29. How many lines of symmetry does a hexagon and decagon have?

Working	Solution

30. There are X number of kids in a class between 10 and 35. They are all groupable into 3s with no one left out. But if she was to make groups of 5, she would have to join a group herself. How many kids are in the class

Working	Solution

31. A hall is normally set up with 10 rows of seats. Each row has the same number of seats. For a special performance, the hall needs to be set up with 2 less rows. To fit all seats in, they need to add 2 seats to each remaining row. How many seats are there in the hall?

Working	Solution

32. Here is a series 3,6,9,12……
    a. what is the sum of the first 20 numbers?
    b. What is the sum of the first 21 numbers?

Working	Solution

33.